

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	175665	polymer same heat	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/19 20:33
L2	440584	semiconductor same device	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/19 20:33
L3	19346	polymer same heat same resistant	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/19 20:34
L4	952	2 and 3	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/19 20:35
L5	5446035	(advantag\$5 benefit\$5 (better higher high improv\$6 increas\$5) near3 (speed quality efficiency) (highly near3 efficient) (lower\$5 low reduc\$6 decreas\$5) near3 (price cost))	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/19 20:35
L6	4320	3 same L5	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/19 20:35
L14	1469	wide same gap same semiconductor same light	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/19 20:40
L15	37553	gan or "gallium nitride"	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/19 20:40
L16	1	L5 same L14 same L15 same polymer	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/19 20:41
L17	147623	gan or "gallium nitride" or sic or "silicon carbide"	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/19 20:41
L18	9	14 same 17 same 5 and polymer	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/19 20:41
L19	3	L5 same L14 same L15 and polymer	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/19 20:42

10/562,071

12/19/07

STN

13:14:31 ON 19 DEC 2007

15:06:46 ON 19 DEC 2007

FILE 'REGISTRY' ENTERED AT 13:14:42 ON 19 DEC 2007

L1 0 SEA ABB=ON PLU=ON POLYPHENYLSILSESQUIOXANE  
L2 3 SEA ABB=ON PLU=ON POLY PHENYLSILSESQUIOXANE  
L3 0 SEA ABB=ON PLU=ON POLYPHENYL SILSESQUIOXANE  
D L2  
L4 1 SEA ABB=ON PLU=ON 183325-62-4/RN  
D L2 2-3  
L5 19 SEA ABB=ON PLU=ON PHENYL SILSESQUIOXANE  
L6 4 SEA ABB=ON PLU=ON PHENYLSILANETRIOL HOMOPOLYMER  
L7 3 SEA ABB=ON PLU=ON POLY PHENYLSILSESQUIOXANE  
L8 0 SEA ABB=ON PLU=ON POLYMETHYLSILSESQUIOXANE  
L9 2 SEA ABB=ON PLU=ON POLY METHYLSILSESQUIOXANE  
L10 0 SEA ABB=ON PLU=ON POLY DIMETHYLSILSESQUIOXANE  
D L9 1-2  
L11 1 SEA ABB=ON PLU=ON 170345-46-7/RN  
L12 1 SEA ABB=ON PLU=ON 153315-80-1/RN  
L13 3 SEA ABB=ON PLU=ON METHYLSILSESQUIOXANE  
L14 2 SEA ABB=ON PLU=ON METHYLTRIETHOXYSILANE HOMOPOLYMER  
L15 2 SEA ABB=ON PLU=ON POLY METHYLTRIMETHOXYSILANE  
L16 0 SEA ABB=ON PLU=ON POLYETHYLSILSESQUIOXANE  
L17 0 SEA ABB=ON PLU=ON POLY ETHYLSILSESQUIOXANE  
L18 0 SEA ABB=ON PLU=ON POLY DIETHYLSILSESQUIOXANE  
L19 0 SEA ABB=ON PLU=ON POLYETHYL SILSESQUIOXANE  
L20 0 SEA ABB=ON PLU=ON POLYPROPYLSILSESQUIOXANE  
L21 3 SEA ABB=ON PLU=ON POLY PROPYLSILSESQUIOXANE  
D L21 1-3  
L22 504 SEA ABB=ON PLU=ON PROPYLTRIETHOXYSILANE  
L23 504 SEA ABB=ON PLU=ON PROPYLTRIETHOXYSILANE  
L24 532 SEA ABB=ON PLU=ON (L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR  
L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR  
L17 OR L18 OR L19 OR L20 OR L21 OR L22 OR L23)  
L25 1 SEA ABB=ON PLU=ON POLYMETHYLSILOXANE  
L26 4 SEA ABB=ON PLU=ON POLY METHYLSILOXANE  
L27 443 SEA ABB=ON PLU=ON POLY DIMETHYLSILOXANE  
L28 0 SEA ABB=ON PLU=ON POLYETHYLSILOXANE  
L29 1 SEA ABB=ON PLU=ON POLY ETHYLSILOXANE  
L30 0 SEA ABB=ON PLU=ON POLYETHYL SILOXANE  
L31 3 SEA ABB=ON PLU=ON POLY DIETHYLSILOXANE  
L32 0 SEA ABB=ON PLU=ON POLYPHENYLSILOXANE  
L33 2 SEA ABB=ON PLU=ON POLY PHENYLSILOXANE  
L34 0 SEA ABB=ON PLU=ON POLYDIPHENYLSILOXANE  
L35 2 SEA ABB=ON PLU=ON POLY DIPHENYLSILOXANE  
L36 2 SEA ABB=ON PLU=ON POLYMETHYLPHENYLSILOXANE  
L37 8 SEA ABB=ON PLU=ON POLY METHYLPHENYLSILOXANE  
L38 461 SEA ABB=ON PLU=ON (L25 OR L26 OR L27 OR L28 OR L29 OR L30 OR  
L31 OR L32 OR L33 OR L34 OR L35 OR L36 OR L37)

FILE 'HCAPLUS' ENTERED AT 13:23:01 ON 19 DEC 2007

L39 650 SEA ABB=ON PLU=ON (PPSQ OR POLYPHENYLSILSESQUIOXANE OR POLY  
PHENYLSILSESQUIOXANE OR POLYPHENYL SILSESQUIOXANE OR POLYMETHYL  
SILSESQUIOXANE OR PMSQ OR POLY METHYLSILSESQUIOXANE OR  
POLYMETHYL SILSESQUIOXANE)  
L40 12 SEA ABB=ON PLU=ON (POLYETHYLSILSESQUIOXANE OR POLY ETHYLSILSE  
SQUIOXANE OR POLYETHYL SILSESQUIOXANE OR POLY ETHYL SILSESQUIOX  
ANE PESQ OR POLYPROPYLSILSESQUIOXANE OR POLY PROPYLSILSESQUIOX  
ANE OR POLYPROPYL SILSESQUIOXANE OR POLY PROPYLSILSESQUIOXANE)  
S ( 51350-55-1/REG#)

FILE 'REGISTRY' ENTERED AT 13:23:32 ON 19 DEC 2007

L41 1 SEA ABB=ON PLU=ON 51350-55-1/RN

FILE 'HCAPLUS' ENTERED AT 13:23:32 ON 19 DEC 2007

L42 386 SEA ABB=ON PLU=ON L41  
L43 386 SEA ABB=ON PLU=ON ( L42 )  
L44 17048 SEA ABB=ON PLU=ON L24  
L45 17479 SEA ABB=ON PLU=ON L44 OR (L39 OR L40 OR L43)

L46 27610 SEA ABB=ON PLU=ON (PDMS OR POLYMETHYLSILOXANE OR POLY  
METHYLSILOXANE OR POLYDIMETHYL SILOXANE OR POLYDIMETHYLSILOXANE  
OR POLY DIMETHYLSILOXANE OR POLYDIMETHYL SILOXANE OR POLYETHYL  
SILOXANE OR POLYDIETHYLSILOXANE OR POLY ETHYLSILOXANE OR POLYETHYL SILOXANE)  
L47 607 SEA ABB=ON PLU=ON (POLY DIETHYLSILOXANE OR POLYDIETHYL  
SILOXANE OR POLYPHENYLSILOXANE OR POLY PHENYLSILOXANE OR  
POLYPHENYL SILOXANE OR POLYDIPHENYLSILOXANE OR POLY DIPHENYLSIL  
OXANE OR POLYDIPHENYL SILOXANE)  
L48 1073 SEA ABB=ON PLU=ON (POLYMETHYLPHENYLSILOXANE OR POLY METHYLPHE  
NYLSILOXANE OR POLYMETHYL PHENYLSILOXANE OR POLYMETHYLPHENYL SILOXANE)  
S ( 31900-57-9/REG#)

FILE 'REGISTRY' ENTERED AT 13:25:15 ON 19 DEC 2007

L49 1 SEA ABB=ON PLU=ON 31900-57-9/RN

FILE 'HCAPLUS' ENTERED AT 13:25:15 ON 19 DEC 2007

L50 17137 SEA ABB=ON PLU=ON L49  
L51 17137 SEA ABB=ON PLU=ON ( L50 )  
L52 26645 SEA ABB=ON PLU=ON L38  
L53 41483 SEA ABB=ON PLU=ON ((L46 OR L47 OR L48) OR L51 OR L52)  
L54 924 SEA ABB=ON PLU=ON L45 AND L53  
L55 37 SEA ABB=ON PLU=ON L54 AND (SEMICONDUCT?)  
L56 1 SEA ABB=ON PLU=ON L54 AND (WIDE(2A)BANDGAP OR BAND GAP)  
L57 2 SEA ABB=ON PLU=ON L54 AND (BANDGAP OR BAND GAP)  
L58 44 SEA ABB=ON PLU=ON L54 AND H01L?/IPC,IC  
L59 2 SEA ABB=ON PLU=ON L54 AND ?DIODE?  
L60 2 SEA ABB=ON PLU=ON L54 AND (THYRISTOR OR PN OR P N OR GALLIUM  
NITRIDE OR GAN OR ?TRANSISTOR? OR FET OR MOSFET OR MOS OR  
MESFET OR SCHOTTKY OR HEMT OR HIGH ELECTRON MOBILITY OR JUNCTION BARRIER OR JBS)  
L61 1 SEA ABB=ON PLU=ON L54 AND (WIDEGAP? OR WIDE GAP?)  
L62 15 SEA ABB=ON PLU=ON L54 AND (ELECTRIC INSULATORS)  
L63 2 SEA ABB=ON PLU=ON L54 AND (BREAKDOWN VOLTAGE)  
L64 1 SEA ABB=ON PLU=ON L54 AND (INORG## INSULAT#####)  
L65 66 SEA ABB=ON PLU=ON (L55 OR L56 OR L57 OR L58 OR L59 OR L60 OR  
L61 OR L62 OR L63 OR L64)  
L66 62 SEA ABB=ON PLU=ON L65 AND P/DT  
L67 4 SEA ABB=ON PLU=ON L65 NOT L66  
L68 3 SEA ABB=ON PLU=ON L67 NOT 2004-2008/PY  
L69 41 SEA ABB=ON PLU=ON L66 AND 1980-2003/PRY,PY  
L70 35 SEA ABB=ON PLU=ON L66 AND 2004-2007/PRY,PY  
L71 27 SEA ABB=ON PLU=ON L66 NOT L70  
L72 44 SEA ABB=ON PLU=ON L71 OR L68 OR L69  
D L72 ALL 1-44  
L73 880 SEA ABB=ON PLU=ON L54 NOT L72  
L74 206 SEA ABB=ON PLU=ON L73 AND (CROSSLINK? OR CROSS LINK?)  
L75 325 SEA ABB=ON PLU=ON L73 AND (COPOLYMER? OR TERPOLYMER?)  
L76 266 SEA ABB=ON PLU=ON L73 AND (BLEND#### OR COMPOSITE OR MIXTURE)  
L77 1 SEA ABB=ON PLU=ON L73 AND (FIRST OR 1ST) (2A) (ORGANOSILICON)  
L78 1 SEA ABB=ON PLU=ON L73 AND (SECOND OR 2ND) (2A) (ORGANOSILICON)  
L79 32 SEA ABB=ON PLU=ON L73 AND LINEAR  
L80 21 SEA ABB=ON PLU=ON L79 AND P/DT  
L81 11 SEA ABB=ON PLU=ON L79 NOT L80  
L82 10 SEA ABB=ON PLU=ON L81 NOT 2004-2008/PY  
L83 16 SEA ABB=ON PLU=ON L80 AND 1980-2003/PRY,PY  
L84 8 SEA ABB=ON PLU=ON L80 AND 2004-2007/PRY,PY  
L85 13 SEA ABB=ON PLU=ON L80 NOT L84  
L86 27 SEA ABB=ON PLU=ON L85 OR L83 OR L82  
D L86 ALL 1-27  
L87 552 SEA ABB=ON PLU=ON (L74 OR L75 OR L76 OR L77 OR L78)  
L88 532 SEA ABB=ON PLU=ON L87 NOT L86  
L89 6 SEA ABB=ON PLU=ON L88 AND H01L?/IPC,IC  
L90 6 SEA ABB=ON PLU=ON L88 AND SEMICONDUCT?  
L91 4 SEA ABB=ON PLU=ON L88 AND (LIGHT) (2A) (EMIT? OR EMIS?)  
L92 1 SEA ABB=ON PLU=ON L88 AND (WIDEGAP? OR WIDE GAP? OR BANDGAP? OR BAND GAP?)  
L93 48 SEA ABB=ON PLU=ON L88 AND (MOISTURE OR WATER OR H2O) (2A) (RESI  
STAN#### OR RESISTIV? OR REPEL? OR PROOF?)  
L94 34 SEA ABB=ON PLU=ON L88 AND (WATERPROOF? OR HYDROPHOBIC?)  
L95 73 SEA ABB=ON PLU=ON L93 OR L94  
L96 8 SEA ABB=ON PLU=ON (L89 OR L90 OR L91 OR L92)  
L97 8 SEA ABB=ON PLU=ON L96 NOT L86  
L98 8 SEA ABB=ON PLU=ON L97 NOT L72  
L99 8 SEA ABB=ON PLU=ON L98 AND P/DT  
L100 0 SEA ABB=ON PLU=ON L99 AND 1980-2003/PRY,PY

L101 8 SEA ABB=ON PLU=ON L99 AND 2004-2007/PRY,PY  
 L102 0 SEA ABB=ON PLU=ON L99 NOT L101  
 L103 66 SEA ABB=ON PLU=ON L95 AND P/DT  
 L104 7 SEA ABB=ON PLU=ON L95 NOT L103  
 L105 4 SEA ABB=ON PLU=ON L104 NOT 2004-2008/PY  
 L106 54 SEA ABB=ON PLU=ON L95 AND 1980-2003/PRY,PY  
 L107 37 SEA ABB=ON PLU=ON L95 AND 2004-2007/PRY,PY  
 L108 36 SEA ABB=ON PLU=ON L95 NOT L107  
 L109 37 SEA ABB=ON PLU=ON L95 NOT L108  
 L110 73 SEA ABB=ON PLU=ON L109 OR L106 OR L105  
 D L110 ALL 1-73  
 L111 7 SEA ABB=ON PLU=ON L24 (L) L38  
 L112 0 SEA ABB=ON PLU=ON L24 (5A) L38

FILE 'REGISTRY' ENTERED AT 14:48:03 ON 19 DEC 2007

L113 7 SEA ABB=ON PLU=ON L24 (L) L38  
 L114 7 SEA ABB=ON PLU=ON L24 (8A) L38

FILE 'HCAPLUS' ENTERED AT 14:48:35 ON 19 DEC 2007

L115 6 SEA ABB=ON PLU=ON L113  
 D L115 ALL 1-6  
 L116 37 SEA ABB=ON PLU=ON (POLYPHENYLSILSESQUIOXANE OR POLY PHENYLSIL  
 SESQUIOXANE OR POLYPHENYL SILSESQUIOXANE OR POLYMETHYLSILSESQUI  
 OXANE) (L) (POLYMETHYLSILOXANE OR POLY METHYLSILOXANE OR  
 POLYDIMETHYL SILOXANE OR POLYDIMETHYLSILOXANE OR POLY DIMETHYLS  
 ILOXANE OR POLYDIMETHYL SILOXANE)  
 L117 111 SEA ABB=ON PLU=ON POLY METHYLSILSESQUIOXANE OR POLYMETHYL  
 SILSESQUIOXANE (L) (POLYMETHYLSILOXANE OR POLY METHYLSILOXANE OR  
 POLYDIMETHYL SILOXANE OR POLYDIMETHYLSILOXANE OR POLY DIMETHYLS  
 ILOXANE OR POLYDIMETHYL SILOXANE OR POLYETHYLSILOXANE OR  
 POLYDIETHYLSILOXANE OR POLY ETHYLSILOXANE OR POLYETHYL SILOXANE)  
 L118 37 SEA ABB=ON PLU=ON (POLYPHENYLSILSESQUIOXANE OR POLY PHENYLSIL  
 SESQUIOXANE OR POLYPHENYL SILSESQUIOXANE OR POLYMETHYLSILSESQUI  
 OXANE) (L) (POLYMETHYLSILOXANE OR POLY METHYLSILOXANE OR  
 POLYDIMETHYL SILOXANE OR POLYDIMETHYLSILOXANE OR POLY DIMETHYLS  
 ILOXANE OR POLYDIMETHYL SILOXANE )  
 L119 1 SEA ABB=ON PLU=ON (POLYETHYLSILSESQUIOXANE OR POLY ETHYLSILSE  
 SQUIOXANE OR POLYETHYL SILSESQUIOXANE OR POLY ETHYL SILSESQUIOX  
 ANE) (5A) (POLYMETHYLSILOXANE OR POLY METHYLSILOXANE OR POLYDIMET  
 HYL SILOXANE OR POLYDIMETHYLSILOXANE OR POLY DIMETHYLSILOXANE)  
 L120 2 SEA ABB=ON PLU=ON (POLYETHYLSILSESQUIOXANE OR POLY ETHYLSILSE  
 SQUIOXANE OR POLYETHYL SILSESQUIOXANE OR POLY ETHYL SILSESQUIOX  
 ANE) (L) (POLYMETHYLSILOXANE OR POLY METHYLSILOXANE OR POLYDIMETH  
 YL SILOXANE OR POLYDIMETHYLSILOXANE OR POLY DIMETHYLSILOXANE)  
 L121 0 SEA ABB=ON PLU=ON (POLYETHYLSILSESQUIOXANE OR POLY ETHYLSILSE  
 SQUIOXANE OR POLYETHYL SILSESQUIOXANE OR POLY ETHYL SILSESQUIOX  
 ANE) (L) (POLYDIMETHYL SILOXANE OR POLYETHYLSILOXANE OR POLYDIETH  
 YLSILOXANE OR POLY ETHYLSILOXANE OR POLYETHYL SILOXANE)  
 L122 2 SEA ABB=ON PLU=ON (POLYETHYLSILSESQUIOXANE OR POLY ETHYLSILSE  
 SQUIOXANE OR POLYETHYL SILSESQUIOXANE OR POLY ETHYL SILSESQUIOX  
 ANE) (L) (POLYMETHYLSILOXANE OR POLY METHYLSILOXANE OR POLYDIMETH  
 YL SILOXANE OR POLYDIMETHYLSILOXANE OR POLY DIMETHYLSILOXANE OR POLYDIMETHYL SILOXANE)  
 L123 0 SEA ABB=ON PLU=ON (POLYETHYLSILSESQUIOXANE OR POLY ETHYLSILSE  
 SQUIOXANE OR POLYETHYL SILSESQUIOXANE OR POLY ETHYL SILSESQUIOX  
 ANE) (L) (POLY DIETHYLSILOXANE OR POLYDIETHYL SILOXANE OR  
 POLYPHENYLSILOXANE OR POLY PHENYLSILOXANE OR POLYPHENYL SILOXANE)  
 L124 37 SEA ABB=ON PLU=ON (POLYPHENYLSILSESQUIOXANE OR POLY PHENYLSIL  
 SESQUIOXANE OR POLYPHENYL SILSESQUIOXANE OR POLYMETHYLSILSESQUI  
 OXANE) (L) (POLYMETHYLSILOXANE OR POLY METHYLSILOXANE OR  
 POLYDIMETHYL SILOXANE OR POLYDIMETHYLSILOXANE OR POLY DIMETHYLS  
 ILOXANE OR POLYDIMETHYL SILOXANE)  
 L125 145 SEA ABB=ON PLU=ON (L116 OR L117 OR L118 OR L119 OR L120 OR  
 L121 OR L122 OR L123 OR L124)  
 L126 139 SEA ABB=ON PLU=ON L125 NOT (L115 OR L110 OR L86 OR L72)  
 L127 44 SEA ABB=ON PLU=ON L126 AND (COPOLYMER? OR TERPOLYMER? OR  
 COBLOCK? OR CO POLYMER? OR TER POLYMER? OR BLOCK(2A) POLYMER?)  
 L128 4 SEA ABB=ON PLU=ON L126 AND (H01L?)/IPC,IC  
 L129 11 SEA ABB=ON PLU=ON L126 AND SEMICONDUCT?  
 L130 0 SEA ABB=ON PLU=ON L126 AND (BANDGAP? OR BAND GAP? OR WIDE(2A) BAND?)  
 L131 7 SEA ABB=ON PLU=ON L126 AND (ELECTRIC INSULATORS)  
 L132 78 SEA ABB=ON PLU=ON (L119 OR L120 OR L121 OR L122 OR L123 OR  
 L124) OR (L127 OR L128 OR L129 OR L130 OR L131)  
 L133 28 SEA ABB=ON PLU=ON L132 AND P/DT  
 L134 50 SEA ABB=ON PLU=ON L132 NOT L133

L135	40	SEA	ABB=ON	PLU=ON	L134	NOT	2004-2008/PY
L136	26	SEA	ABB=ON	PLU=ON	L133	AND	1980-2003/PRY, PY
L137	8	SEA	ABB=ON	PLU=ON	L133	AND	2004-2007/PRY, PY
L138	20	SEA	ABB=ON	PLU=ON	L133	NOT	L137
L139	66	SEA	ABB=ON	PLU=ON	L138	OR	L136 OR L135
					D	L139	ALL 1-66